Sub Code: 005-20-000110
Est Cost: 15.00 Lakhs

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353226

No. .....

of Work Drilling of Borewell and providing pump & Motor and From ..... To .....

of Contractor of nature of Agency laying pipeline in ward NO 05

commencement of work ... Byatarayanapura Sub Division.

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
Work Order NO: BBMP/EE/BTP/WO/126/20-21 Dt 6/10/20						
Contractor: Channigarayaswamy, Constructions.						
Geophysical investigation of site for finding to supplying drinking water to the habitation either through the hand pump. mws or P.W.S.S. by the electrical sounding by adopting						

Scanned by CamScanner

MEASUREMENT BOOK

M. A. R. 57 (Rule 116)
Measurement Book

No. B 353227

Work Order No. .....
Name of Work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Vernier or Schlumberger's method including determination of geological formation. Geological investigation of existing ground water in vicinity its quality quantity & acceptability & its lowered etc complete.						
15/11/18	(1) MCECHS L/O. EKRangpur 1 — office DSW						
	(2) Baba Nagara Extension 1st Cross 1 — office DSW						
	(a) Rate 1851.25/each	2				= 3702=50	
	(2) Sinking of Borewell of 165 mm dia clear dia clear using Super fast Hydraulic						
	Rig of capacity 250 IP SIG & above in all strata including over burden upto 20m fixing of casing pipes, Collars & cap will be made including transportation Cutting Breaking & welding complete 0 - 50m					900 CMF & above upto 50 m CBPC	
	(1) MCECHS L/O	1	—	—	50.0		2 SWS
	(2) Baba Nagara	1	—	—	50.0		
					100.0m		
	(a) Rate 301/Rm					= 30,100=00	

Scanned by CamScanner

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(3)	Sinking of Bore well 50-					100 m	
	(1) MCECH 40	1	—	—	50		
	(2) Baba Nagarna	1	—	—	50		
					100.0		
	@ Rate 393.40/m					= 39340=00	
(4)	Sinking of Bore well 100 to 150 m						
	(1) MCECH 40	1	—	—	50.0		
	(2) Baba Nagarna	1	—	—	50.0		
					100.0		
	@ Rate 437.72/m					= 43772=00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353228

No. .....

e of Work ..... From..... To.....

e of Contractor of nature of Agency .....

of commencement of work .....

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
Sinking of Bore well	150 to 200 m					
(1) MCECH 40	1	—	—	50.0		
(2) Baba Nagarna	1	—	—	50.0		
				100.00		
@ Rate 462.32/m					= 46232=00	
Sinking of Bore well	200 to 250 m					
(1) MCECH 40	1	—	—	50.0		
(2) Baba Nagarna	1	—	—	50.0		
				100.0		
@ Rate 535.11/m					= 53511=00	

Scanned by CamScanner

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(7)	Sinking of Bore well 250 to 300 m						
	① MCEME40	1	–	–	50.0		
	② Baba Nagara	1	–	–	50.0		
	③ Rate 573.47/m				100.0	= 57347.00	
(8)	Sinking of Bore well 300 to 370 m						
	① MCEME40	1	–	–	67		
	② Baba Nagara	1	–	–	71		
	③ Rate 594.01/m				138 m	= 81973.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353229

al No. .....

ne of Work ..... From..... To.....

ne of Contractor of nature of Agency .....

e of commencement of work .....

:e	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
(9)	Supplying all sizes made 175 mm nominal Bore medium blade ERW casing pipe of 5 mm thick blade electric resistance continuous welded mild steel tube material conforming to IS etc complete						
	① MCEME40	1	–	–	73		
	② Baba nagara	1	–	–	52		
					125		
	③ Rate 1303.34/m Limited to 120 m					= 156401=00	

Scanned by CamScanner

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(10)	Providing & fixing 200 m.m dia PVC pipe & as per Specification.						
	① MECH 40	1	—	—	10.0		
	② Baba Nagara	1	—	—	10.0		
					20.0 m		
	③ ~~Rate~~ 1082.02/m					=21640=00	
(11)	175 m.m dia M.S. casing cap						
	① MECH 40	1	—	—	1NO		
	② Baba Nagara	1	—	—	1NO		
					2NO		
	③ ~~Rate~~ 98.37/NO					= 197=00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353230

rial No. .....

me of Work ..... From..... To.....

me of Contractor of nature of Agency .....

te of commencement of work .....

te	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
(12)	M.S casing pipe collars 1st class						
	① MECH 40	1	—	—	1NO		
	② Baba Nagara	1	—	—	1NO		
					2NO		
	③ Rate 147.55/NO					= 295=00	
(13)	Fabricating Supplying & mounting MS box 4 16 SWG Suitable for Floor/Wall mounting, fully weather proof with provision for better Heat dissipation hinges front cover, glands with tamper proof						

Scanned by CamScanner

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Pulling arrangements with suitable size clamps etc complete						
	① MECH 40	1	–	–	22000 m²		
	② Babanagara	1	–	–	22000. m²		
					44000 m²		
	③ Rate 0.32/m²					= 14080.00	
(14)	Labour charges for erection of new/ repaired Submersible pumpset along with all pipes cable including transportation etc complete						
	① MECH 40	1	–	–	45L		
	② Babanagara	1	–	–	45L		
					90L		
	③ Rate 86.56/L					= 7790.00	

M. A. R. 57 (Rule 116)
Measurement Book
No. B

353231

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
(15)	Erection of combined panel board meter board with all necessary materials & labour including providing CC 1:3:6 foundation bed etc complete						
	① MECH 40	1	—	—	—	1 NO	
	② Babanagara	1	—	—	—	1 NO	
						2 NO	
	③ Rate 453.03/NO					= 907.00	
(16)	Supplying & fixing of porcelain fuse channel with cut-out on existing 1000 dia/panel wire necessary nuts & bolts & washers etc complete						

Scanned by CamScanner

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	① MCECH LIO	1	—	—	3 NO		
	② Baba Nagar	1	—	—	3 NO		
					6 NO		
	⑤ Rate 143.25/NO					— 860=00	
	(12) Supplying & laying 4 C.T.V.G cable having Aluminium Conductor PVC insulated Sheathed galvanized steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 mm² cable						
	① MCECH LIO.	1	—	—	34		
	② Baba Nagar	1	—	—	28		
					62		
	⑤ Rate 162.30/m	Limited to 60 m				= 9738=00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353232

al No. .....
ne of Work ..... From..... To.....
ne of Contractor of nature of Agency .....
e of commencement of work .....

e	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	⑧ Digging of trenches of 0.6 m x 0.50 m wide refilling it trench to it requires ground level & Control- ling etc complete						
	① MCECH LIO	1	34	—	34m	34m	
	② Baba Nagar	1	28	—	—	28m	
						62m	
			Limited to			60 m	
	⑤ Rate 54.10/m					= 3246=00	

Scanned by CamScanner

MEASUREMENT BOOK

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353233

ial No. .....
me of Work ..... From ..... To .....
me of Contractor of nature of Agency .....
e of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(19)	Supplying fixing class B-G.I pipe on pole/wall/ over crossing with necessary clamping arrangements for U.G Cable with ICV class 40 m.m						
	(a) MCCB 4 Pole	1	3	-	-	3 nos	cfpc
	(b) Bala Nagara	1	3	-	-	3 nos / work	
						6 nos	
	(c) Pipe 281.32/nos					= 1688=00	
(20)	Supplying & fixing Earthing earth electrode for grounding conduit. IC Cut out & other Equipment with meter board wiring						
	Earthing						
	40 m.m dia 2.90 m.m length G.I pipes 2.5 mts long buried in a pit (the pit should be filled with equal proportion of salts + charcoal 150 m.m around the pipes to complete depth the connection from the pipes to the conduit etc complete						
	(1) MCCB 4 Pole	1	—	—	—	1 NO	cfpc
	(2) Bala Nagara	1	—	—	—	1 NO	work
						2 NO	
	(3) Pipe 1623.02/NO					= 3246=00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
(21)	Supply & fixing LT Cast-iron pot heads suitable for 1 Core class 16 mm² UG Cable filled with necessary bitumen/insulating Compound etc complete						
	① MCECH/O	1	—	—	—	1 NO	C/FC
	② Baba Nagpur	1	—	—	—	1 NO	20.12.19
						2 NO	20/11/2020
	③ Rate 259.68/NO					= 519=0	
(22)	Supplying & fixing 1 polished wood board made of not less than 15 mm thick plastic on both side with plastics marks out on not more than 2 places & fixing it Screws with						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353234

No. .....
of Work ..... From..... To.....
of Contractor of nature of Agency .....
of commencement of work .....

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
① MCECH/O	1	—	—	—	1NO	
② Baba Nagpur	1	—	—	—	1NO	
					2NO	
③ Rate 297.56/NO					= 595=00	
③ Borewell Cap & Clamp Set						C/FC
① MCECH/O	1	—	—	—	1NO	20.12.19
② Baba Nagpur	1	—	—	—	1NO	
					2NO	
④ Rate 1719/NO					= 3438=00	

Scanned by CamScanner

Scanned by CamScanner

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
1	2	Number 3	Length 4	Breadth 5	Depth 6	7	
24	Supply & delivery at site brand new texmo/monoral/lub/sabar/Radha make suitable HP deep well submersible pumpset suitable for the installation in 150 dia borewell comprising of 2 stage or multistage CF pump close coupled & fitted with pure drinking water squirrel cage submersible induction motor suitable for operation of 3ph 50 Hz 380/440 volts AC supply fitted with required accessories 1.5 HP 30 stage						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

No. .....

e of Work ..... From..... To.....

e of Contractor of nature of Agency .....

of commencement of work .....

353235

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
2	Number 3	Length 4	Breadth 5	Depth 6	7	8
① MCECH 40	1	—	—	—	1 No	Cft FC
② Baba Nagina	1	—	—	—	1 No	as per
					2 NO	
③ Rate 6888.33/No					= 13776 = 00	
5) providing, laying & jointing GI pipes conforming to IS specification & approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead &						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Threads for Joints wherever necessary including all leads with lifts etc complete						
	① MECHLOD	1	—	—	—	328	
	② Baba Nagpur	1	—	—	—	345	
						673	
				Limited to		670 mtr	
	③ Rate 396.33/mtr				=	265541=00	
26	Supply & fixing collar for GI pipes 50mm						
	① MECHLOD	55 No	—	—	—	55 No	
	② Baba Nagpur	58 No	—	—	—	58 No	
						113 No	

M. A. R. 57 (Rule 116)
Measurement Book
No. B

353236

rial No. .....
me of Work ..... From..... To.....
me of Contractor of nature of Agency .....
te of commencement of work .....

ate	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	③ Rate 171.9/No					=	19253=00
27	Supplying & delivery at site brand new/ISI Submersible pump cable 1×3×6 sq mm						
	① MECHLOD	1	710	—	—	710 mtr	
	② Baba Nagpur	1	750	—	—	750 mtr	
						1460 mtr	
	③ Rate 137.52/mtr					=	200779=00
28	Supplying & delivery at site brand new/ISI						

Kotons Sunshine best indigenous make combine

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refe to Meas
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	energy meter - cum - Control panel board unit of size 1200 x 600 x 300 mm min mechanical strong & vermin & water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz 380/440 Volt. Ac supply with spring loaded latch locking with a key rib should be provided inside the door etc. complete						
	① MCECH LTD	1	—	—	—	1 No	
	② Babanagara	1	—	—	—	1 No	
						2 NO	
	@ Rate 20055/NO					= 40110=00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353237

al No. .....
ne of Work ..... From..... To.....
ne of Contractor of nature of Agency .....
e of commencement of work .....

e	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
9)	Supply & delivery of brand new SD m.m Gate Valve						
	① MCECH LTD	1	—	—	—	1 NO	
	② Babanagara	1	—	—	—	1 NO	
						2NO	
	@ Rate 1719/NO					= 3438=00	
9	Supplying & delivery of brand new NR Valve						
	① MCECH LTD	1	—	—	—	1 NO	
	② Babanagara	1	—	—	—	1 NO	
						2NO	
	@ Rate 1719/NO					= 3438=00	

Scanned by CamScanner

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
1	2	Number 3	Length 4	Breadth 5	Depth 6	7	
(31)	Supplying & fixing MCB						
	① MCECH L/D	1	—	—	—	1 No	
	② Babanagara	1	—	—	—	1 No	
						2 No	
	③ Rate ₹59.50/No					= 17/9 = No	
(32)	GI pipe 40 mm A class for Electrical pole						
	① MCECH L/D	1	2 mtr	—	—	2 mtr	
	② Babanagara	1	2 mtr	—	—	2 mtr	
						4 mtr	
	③ Rate 382/mtr					= 1528 = no	
(33)	Pothole						
	① MCECH L/D	1	—	—	—	1 No	
	② Babanagara	1	—	—	—	1 No	
						2 No	
	③ Rate 344.80/No					= 689.60 = no	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353238

al No. .....

e of Work ..... From..... To.....

e of Contractor of nature of Agency .....

e of commencement of work .....

e	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	Earthwork Excavation for foundation & build						
	water Supply, Sanitary Line & electrical cond						
	in ordinary soil not exceeding 1½ excavate						
	1.5m in depth including dressing the bottom & sides						
	pits & trenches stacking the excavated soil clear						
	from edges & excavation etc complition,						
	qty is from premeasurement wide etc						
	no 34 page 353482 no					36.024	
	② Rate 302.68/24					= 10896 = no	

Scanned by CamScanner

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
35	providing & installing at site of work 63 m.m pvc pipes @ 6 kg/cm² rearty cost of pipes + Specials + labour including lowering into trenches laying true to line level + perfect jointing at joints leaks proof including testing & approval type test all labour + Lite charges etc complete Qty is from premeasurement Lt No 3157 pg 3[1]328[1] = 80.0 mt @ Rate 346.58/mt — 30124 = 00						
36	Refilling available earth around pipe line						

M. A. R. 57 (Rule 116)
Measurement Book
No. B

al No. .....
ne of Work ..... From..... To.....
ne of Contractor of nature of Agency .....
e of commencement of work .....

353239

te	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	tables in layers not exceeding 20 cms in depth compacting each deposited layers by ramming after watering will lead upto 10m + Lift upto 1.5m including cost of all labour etc complete Qty is from Item no 24 @ Rate 122.49/m³				is 36.0 m³	= 4410 = 00	
37	Reserve Deposit. ① Dhe CH Lto ② Babanagara Water charges 2 --	1 1	— —	— —	— 18000 = 00 1520 = 00 30102 = 00 31922 = 00	19520 = 00	

P.T.O

Scanned by CamScanner

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6		
	Mm CLLT					59702 = 00	
	S/L					723128 = 00	
					Dte =	33299	
					Total =	1319830 = 00	
						867775 = 00	
	Add 12% GST				=	1558320 = 00	
					Total M	1477822 = 00	
						140605 = 00	
	Total M PWD SR Items 5 no 23*30						
						15/01/2020	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

353240

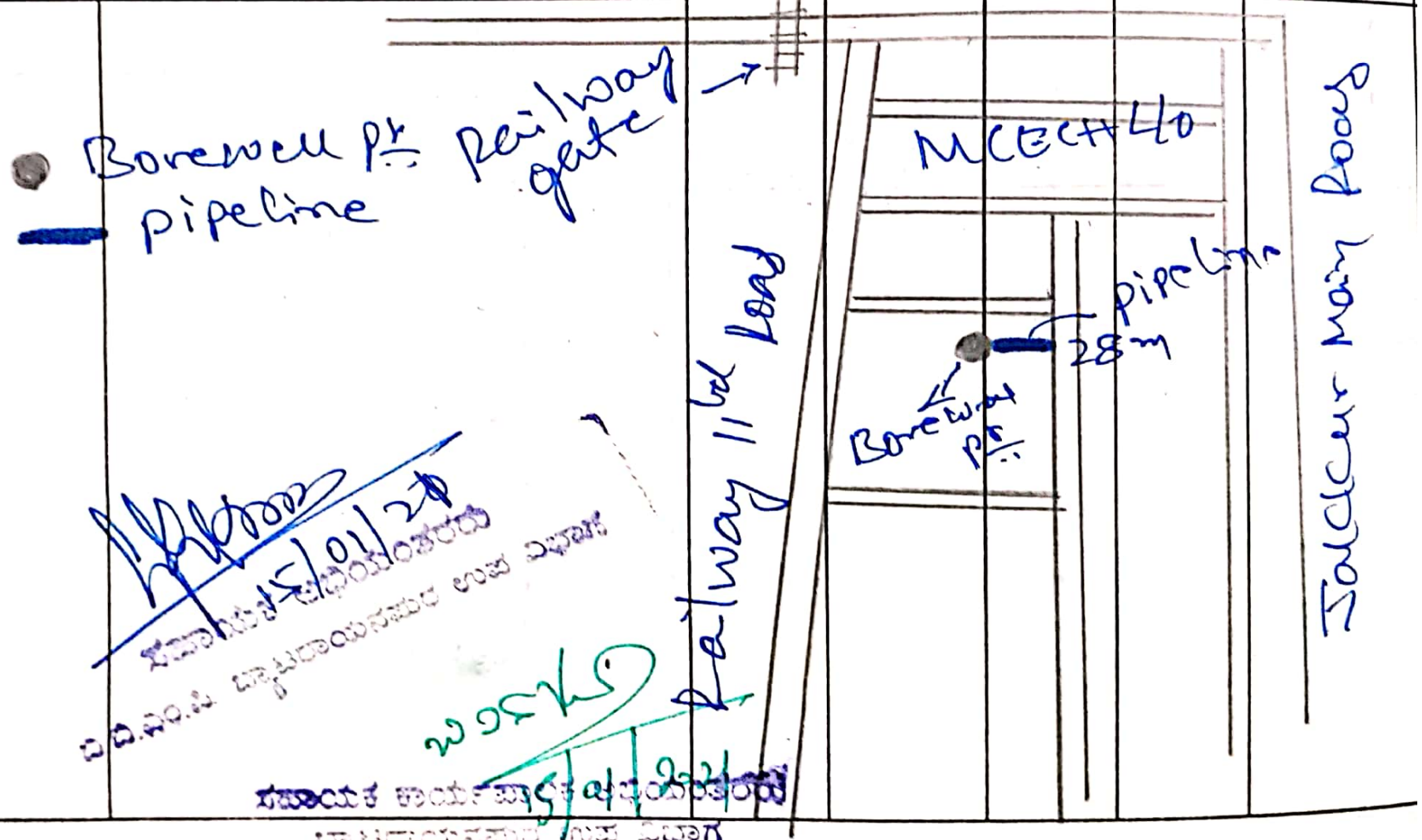
Serial No. .....
Name of Work ..... From 4th May To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Bangalore Main Road	Borewell pit		pipe line			pipe line Borewell pit
		1	50m		11th cross		
	Baba Nagara				1st cross		
	Baba Nagara Main Road						
						15/01/2020	

Scanned by CamScanner

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	To Sampige-nakalli					



ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Scanned by CamScanner